

# Certificate of Constancy of Performance

## 0359-CPR-000004-02



In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation), this certificate applies to the construction product(s).

**Product(s):** **Single axis hinges**  
(refer to attached appendix for details and conditions)

**Placed on the market under the trade mark of:** **Allegion (UK) Limited,**  
35 Rocky Lane, Aston, Birmingham, B6 5RQ. United Kingdom.

**Produced in the manufacturing plant(s):** **A001**

**Intended use:** **On fire/smoke compartmentation doors fitted with door closing devices**  
(to enable such doors to close reliably and thus achieve self closing in the event of fire)

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

**EN 1935:2002/AC:2003**

Under system 1 for the performance set out in this certificate are applied and that the performance of the construction product is assessed to remain constant.

This certificate was first issued on 12<sup>th</sup> August 2009 under CPD (89/106/EEC) and reissued under CPR (305/2011) on 19<sup>th</sup> August 2016 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



*The issued document and statement(s) herein makes reference only to a presumption of conformity in accordance with the CPR Regulations EU 305/2011 (as amended). However, it is the manufacturer's or their authorised representative's sole responsibility to affix the CE logo and, by doing so, confirms full compliance and conformity to all other European mandatory directives and regulations that may also apply.*

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David Bigland  
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Date 19 AUG-2016  
Issue 02

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood,  
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### Appendix to Certificate of Constancy of Performance 0359-CPR-000004-02

Model Ref: Briton 4801, Briton 4802, Briton 4803, Briton 4801.316, Briton 4802.316, Briton 4803.316

**Table A1. Product description for single axis hinges from Allegion (UK).**

Brand	Model No. <sup>1,2,3</sup>	Dimensions			Material <sup>4</sup>
		L (inch)	W (inch)	T (mm)	
Briton	Briton 4801	4	3	3	SUS304
Briton	Briton 4802	4	3.5	3	SUS304
Briton	Briton 4803	4	4	3	SUS304
Briton	Briton 4801.316	4	3	3	SUS316
Briton	Briton 4802.316	4	3.5	3	SUS316
Briton	Briton 4803.316	4	4	3	SUS316

Notes.

- 2 ball bearings butt hinge
- Five knuckles for each model
- Surface finishes – Polished
- European Designation (EN) *Austenitic Stainless Steel* 1.4301 and 1.4401 (EN 10088-1:2014 *List of stainless steels*)

**Table A2. Product classification for single axis hinges (EN 1935:2002/AC:2003) from Allegion (UK)<sup>a,c</sup>**

Product Classification							
4	7	6	1 <sup>b</sup>	1	4	0	13

Notes.

- The single axis hinges shall be installed in accordance with the installation instructions for the product(s) and with the doors are especially designed for the use with the floor spring.
- Digit 4 grade “1” was based on the test result from fire resistance test(s) (refer to Table A4).
- This certificate of constancy of performance, refers to the requirements for the product(s) described under the CPR. There may be other European Directives, where requirements need to be declared before CE marking can be affixed by the manufacturer or their authorised representative

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Supporting test reports for this certificate are as follows:

**Table A3. Mechanical test reports & product classification for hinges from Allegion (UK)**

Test Report	Model tested	Product Classification							
		4	7	6	- <sup>a</sup>	1	0	1	13
150629077GZU-001	Briton 4802	4	7	6	- <sup>a</sup>	1	0	1	13
Model numbers assessed as having same performance: Briton 4801, Briton 4803, Briton 4801.316, Briton 4802.316, Briton 4803.316									
Notes. a. Digit 4 becomes "1" after successful outcome of fire resistance test (refer to Table A4).									

**Table A4. Fire test report(s) for hinges from Allegion (UK)**

Test Report	Model tested	Test Method	Fire Resistance (minutes)	
			Integrity (E)	Insulation(I)
150630009SHF-BP-1	Briton 4803	EN 1634-1:2014	60	60
Model numbers assessed as having same performance: Briton 4801, Briton 4802, Briton 4801.316, Briton 4802.316, Briton 4803.316				

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Table A5. Single axis hinges (EN 1935:2002/AC:2003) according to the Annex ZA, Table ZA.1 for Allegion UK Limited

<b>Product:</b>	Single-axis hinges as defined in clause 1 of this standard.	
<b>Intended uses:</b>	On fire/smoke compartmentation doors fitted with door closing devices (to enable such doors to close reliably and thus achieve self closing in the event of fire)	
<b>Requirement / characteristic</b>	<b>Requirement clauses in this European Standard</b>	<b>Results</b>
Self closing	5.1 Initial friction torque	Less than 4,0 Nm with door mass 120kg
	5.2 static Load — Load deformation	Pass with a displacement under load: - Lateral < 4 mm; - Vertical < 2 mm And a residual displacement after unloading: - Lateral < 0,2 mm; - Vertical < 0,3 mm
	5.2 static Load — Overload	Pass
	5.3 Shear strength	Pass No breakage and cracking Lateral deformation under loading < 3 mm Additional lateral and vertical displacement after unloading < 1 mm
	5.6 Hinges for use on fire-resistant and/or smoke-control doors	Grade 1: suitable for use on fire/smoke resistant door assemblies
Durability	5.4 Durability	Pass (200,000 cycles) Maximum wear: - Lateral < 0,2 mm - Vertical < 1 mm Maximum frictional torque: - After 20 cycles and completion of 200,000 cycles less than 4,0 Nm.
	5.5 Corrosion resistance	Grade 4, Neutral Salt Spray (NSS) – 240 hours
Dangerous substances	Note 1 of ZA 1	No dangerous substances declared for this product/intended use

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